

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Withdrawn) A biomolecule bead-containing tube containing a biomolecule bead array in which biomolecule beads consisting of a spherical bead and a specific biomolecule species immobilized thereon are arranged in a tubular container made of a material transmitting a light having a specific wavelength, wherein a spherical mark bead made of a material optically distinguishable from the material constituting the spherical bead of said biomolecule bead is inserted in a predetermined order between specific biomolecule beads in the biomolecule bead array, wherein said biomolecule bead-containing tube has a first region where a number of the biomolecule beads is larger than a number of the mark beads, and a second region where a number of the mark beads is larger than a number of the biomolecule beads, wherein the second region is provided in a terminal section selected from a start section or an end section for reading-out beads in the biomolecule bead array in the first region.

2. (Withdrawn) A biomolecule bead-containing tube according to claim 1, wherein the mark beads are arranged corresponding to an identification code indicating attribution information selected from a manufacturer's name, an ID number and sequence pattern information for the biomolecule bead array.

3. (Cancelled).

4. (Withdrawn) A biomolecule bead-containing tube according to claim 1, wherein at least the mark beads are arranged in the second region corresponding to an identification code indicating attribution information selected from a manufacturer's name, an ID number and sequence pattern information for the biomolecule bead array.

5. (Cancelled).

6. (Withdrawn) A biomolecule bead-containing tube according to claim 1, wherein the mark beads are arranged in the first region corresponding to an identification code indicating attribution information selected from a manufacturer's name, an ID number and sequence pattern information for the biomolecule bead array.

7.-18. (Cancelled).

19. (Currently Amended) A biomolecule bead-containing tube ~~containing~~ comprising a biomolecule bead array in which biomolecule beads comprising a spherical bead and having a specific biomolecule species type immobilized thereon, and marker beads comprising a light absorbing material are arranged in a tubular container made of a material configured to transmitting a light having a specific wavelength, wherein identification information indicating both or either of arrangement in a predetermined order of the biomolecule beads and the marker beads in the biomolecule bead array, which corresponds to tube identification information of a specimen, and wherein biomolecule attribution information, which corresponds to the biomolecule type of the biomolecule beads, is stored and wherein the identification information isare stored in a memoryso as to be optically read out.

20. (Cancelled) An analyzing device for analyzing a specimen injected thereto, the specimen comprising a biomolecule bead-containing tube containing a biomolecule bead array in which biomolecule beads comprising a spherical bead and a specific biomolecule species immobilized thereon are arranged in a tubular container made of a material transmitting a light having a specific wavelength, wherein identification information indicating both or either of arrangement of the biomolecule beads in the biomolecule bead array and attribution information of the biomolecule beads is stored and wherein the identification information is stored so as to be optically read out, and which the analyzing device analyzes the specimen by irradiating the biomolecule bead-containing tube with a light to read out an emitted light from the biomolecule beads in the biomolecule bead-containing tube.

21. (New) A method for analyzing a specimen comprising:

arranging in a bead-containing tube, biomolecule beads having a specific biomolecule type immobilized thereon and marker beads comprising a light absorbing material, in a predetermined order corresponding to tube identification information of the specimen;

storing the tube identification information in a memory; and

analyzing the specimen by irradiating the bead-containing tube with a light to read out an emitted light from the biomolecule beads in the bead-containing tube so as to optically read out the tube identification information and identify the specimen.